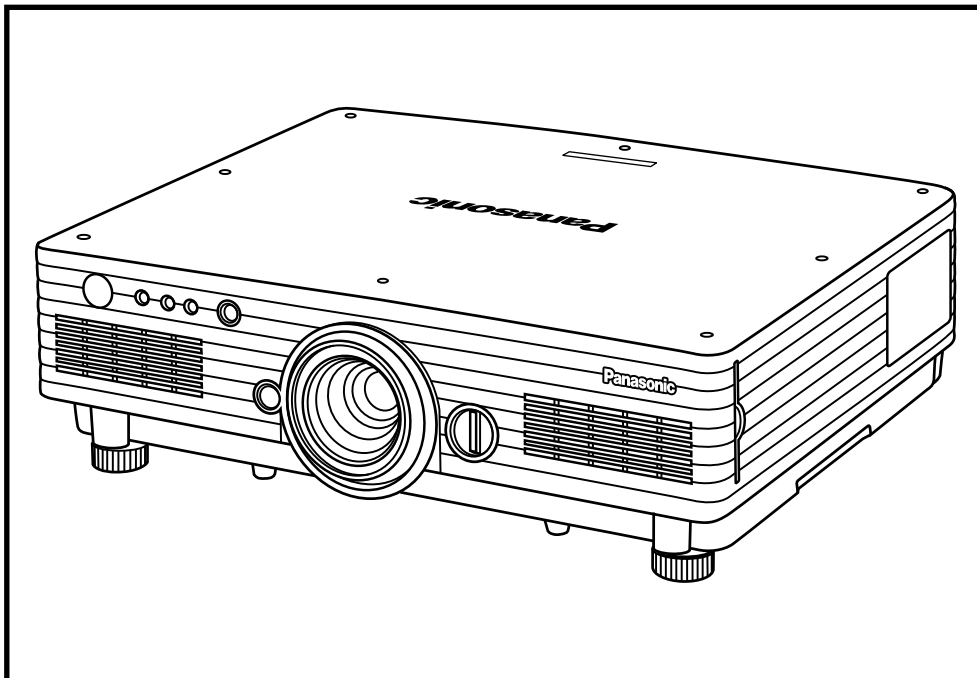


S P E C F I L E



The PT-D5700L is not equipped with a lens.

Product Number : PT-**D5700/D5700L**

Product Name : DLP™ Projectors

Specifications

Main Unit

| | | |
|--------------------------------|-----------------|--|
| Power supply: | North America: | 120 V AC, 50/60 Hz |
| | Europe: | 220–240 V AC, 50/60 Hz |
| Power consumption: | North America: | 770 W (770 VA) (10 W during standby mode with fan stopped) |
| | Europe: | 750 W (790 VA) (15 W during standby mode with fan stopped) |
| DLP™ chip: | Panel size: | 0.7" diagonal (4:3 aspect ratio) |
| | Display method: | DLP™ chip x 1, DLP™ system |
| | Pixels: | 786,432 (1,024 x 768) x 1, total of 786,432 pixels |
| Lens: | PT-D5700: | Powered zoom/focus lenses (4:3 aspect ratio: 1.8–2.4:1), F 1.7–2.0, f 25.6–33.8 mm |
| | PT-D5700L: | Optional poweredzoom/focus lenses |
| Lamp: | | 300 W UHM lamps (x 2) (dual lamp system) |
| Screen size: | | 50–600 inches (50–200 inches with the ET-DLE050 and ET-DLE055), 4:3 aspect ratio |
| Brightness*1: | | 6,000 lumens (dual lamp, high power mode) |
| Center-to-corner uniformity*1: | | 90% |
| Contrast*1: | | 2,000:1 (full on/full off, contrast mode: high, brightness: 3,000 lumens) 1,000:1 (full on/full off, contrast mode: normal) |
| Resolution: | | 1,024 x 768 pixels (1,600 x 1,200 pixels compatible, compression mode) |
| Scanning frequency: | RGB: | Horizontal: 15–91 kHz, Vertical: 50–85 Hz, Dot clock: 150 MHz or lower |
| | YPbPr (YCbCr): | 480i: fh 15.75 kHz; fv 59.94 Hz, 576i: fh 15.63 kHz; fv 50 Hz, 480p: fh 31.50 kHz; fv 59.94 Hz, 576p: fh 31.25 kHz; fv 50 Hz, 720/60p: fh 45 kHz; fv 60 Hz, 720/50p: fh 37.5 kHz; fv 50 Hz, 1035/60i: fh 33.75 kHz; fv 60 Hz, 1080/60i: fh 33.75 kHz; fv 60 Hz, 1080/50i: fh 28.13 kHz; fv 50 Hz, 1080/60p: fh 67.5 kHz; fv 60 Hz, 1080/50p: fh 56.25 kHz; fv 50 Hz |
| | S-Video/Video: | Horizontal: 15.75/15.63 kHz, Vertical: 50/60 Hz, (NTSC, NTSC4.43, PAL, PAL60, PAL-N, PAL-M, SECAM) |
| Optical axis shift: | | Horizontal (manual) and vertical (powered), Horizontal: ±10%, vertical: +50% |
| Keystone correction range: | | Vertical: ±30° |
| Installation: | | Ceiling/floor, front/rear |
| Terminals*2: | DVI-D IN: | DVI-D 24-pin x 1, DVI 1.0 compliant, HDCP compatible, for single link only |
| | RGB 1 IN: | BNC x 5 |
| | R, G, B: | G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B, R: 0.7 Vp-p, 75 ohms HD/VD, SYNC: TTL (positive/negative) |
| | Y, Pb, Pr: | Y: 1.0 p-p, 75 ohms (including sync signal), Pb/Pr: 0.7 Vp-p, 75 ohms |
| | RGB 2 IN: | D-sub HD 15-pin x 1 |
| | R, G, B: | G: 0.7 Vp-p (G: 1.0 Vp-p for sync on G), 75 ohms, B, R: 0.7 Vp-p, 75 ohms HD/VD, SYNC: TTL (positive/negative) |
| | Y, Pb, Pr: | Y: 1.0 p-p, 75 ohms (including sync signal), Pb/Pr: 0.7 Vp-p, 75 ohms |
| | VIDEO IN: | BNC x 1, 1.0 Vp-p, 75 ohms |
| | S-VIDEO IN: | Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 ohms |
| | SERIAL IN: | D-sub 9-pin x 1 (RS-232C compliant) for external controller |
| | SERIAL OUT: | D-sub 9-pin x 1 (RS-232C compliant) for external controller |
| | REMOTE 1 IN: | M3 jack x 1 for wired remote control or link control |
| | REMOTE 1 OUT: | M3 jack x 1 for link control |
| | REMOTE 2 IN: | D-sub 9-pin x 1 for external control (parallel) |
| | LAN: | RJ-45 x 1, compliant with PLink™, 10Base-T/100Base-TX |
| Power cord length: | | 3.0 m (9'10") |
| Cabinet materials: | | Molded plastic |

| | |
|-------------------------|--|
| On-screen menu: | 9 languages: English, French, German, Spanish, Italian, Russian, Korean, Chinese, and Japanese |
| Dimensions (W x H x D): | PT-D5700 530 x 167 x 441 mm (20-7/8" x 6-9/16" x 17-3/8") (with supplied lens) |
| | PT-D5700L 530 x 167 x 429 mm (20-7/8" x 6-9/16" x 16-7/8") (without lens) |
| Weight* ³ : | PT-D5700 Approx. 13.9 kg (30.6 lbs) (with supplied lens) |
| | PT-D5700L Approx. 13.1 kg (28.9 lbs) (without lens) |
| Operating temperature: | 0°–45°C (32°–113°F) |
| Operating humidity: | 20%–80% (no condensation) |

Remote Control Unit

| | |
|---------------------------------|--|
| Power supply: | 3 V DC (AA battery x 2) |
| Operation range* ⁴ : | Wireless: Approx. 30 m (98.4 feet) when operated from directly in front of the signal receptor |
| Dimensions (W x H x D): | 51 x 176 x 22.5 mm (2" x 6-15/16" x 7/8") |
| Weight: | 134 g (4.7 oz) (including batteries) |

Supplied Accessories

Power cord, Wireless/wired remote control unit, Batteries for remote control (x 2), Wire rope

Optional Accessories

| | |
|--------------------------|-------------------------------|
| Replacement lamp unit: | ET-LAD57 (1 unit) |
| | ET-LAD57W (set of two lamps) |
| Ceiling mount bracket: | ET-PKD56H (for high ceilings) |
| | ET-PKD55S (for low ceilings) |
| Zoom lens (1.3–1.8:1) | ET-DLE100 |
| Zoom lens (2.4–4.0:1) | ET-DLE200 |
| Zoom lens (3.4–4.4:1) | ET-DLE310 |
| Zoom lens (4.5–8.4:1) | ET-DLE410 |
| Fixed-focus lens (0.8:1) | ET-DLE050 |
| Zoom lens (1.3–2.0:1) | ET-DLE150 |
| Zoom lens (2.4–3.7:1) | ET-DLE250 |
| Zoom lens (3.7–5.6:1) | ET-DLE350 |
| Zoom lens (5.5–8.9:1) | ET-DLE450 |
| Fixed-focus lens (0.8:1) | ET-DLE055 |

Weights and dimensions shown are approximate. Specifications subject to change without notice.

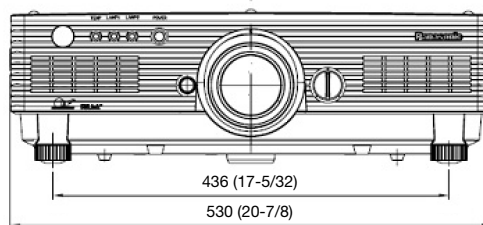
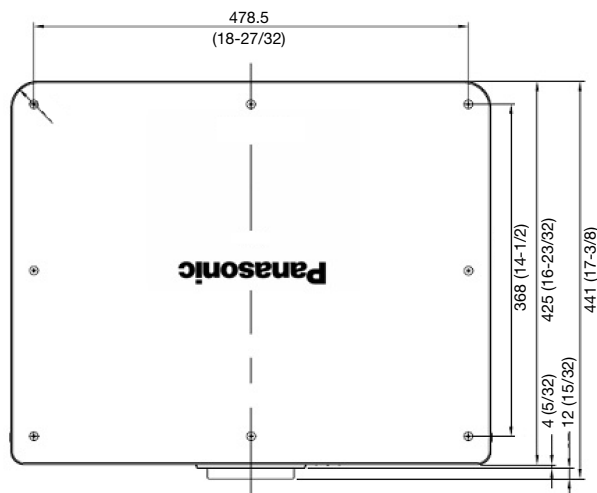
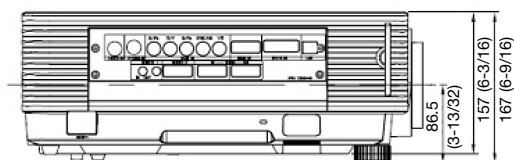
*1 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*2 The HD/SYNC and VD inputs do not accept the tri-level sync signal.

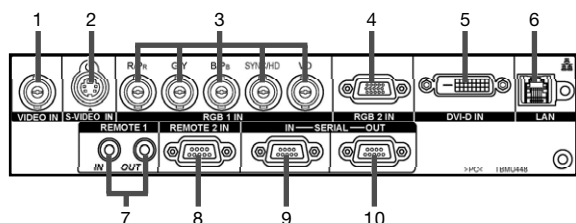
*3 Operation range differs depending on environments.

Dimensions

unit : mm (inch)
NOTE: This illustration is not drawn to scale.
The illustration shows the PT-D5700.

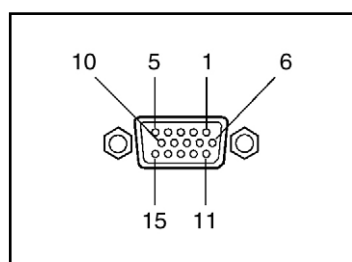


Terminals



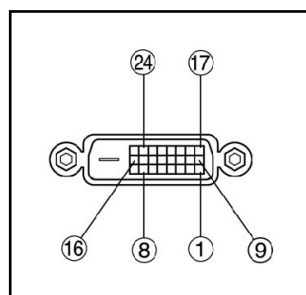
- 1 Video input
- 2 S-Video input
- 3 RGB 1 input
- 4 RGB 2 Input
- 5 DVI-D input
- 6 LAN connector
- 7 Remote 1 input and output
- 8 Remote 2 input
- 9 Serial input
- 10 Serial output

RGB IN connector pin assignment



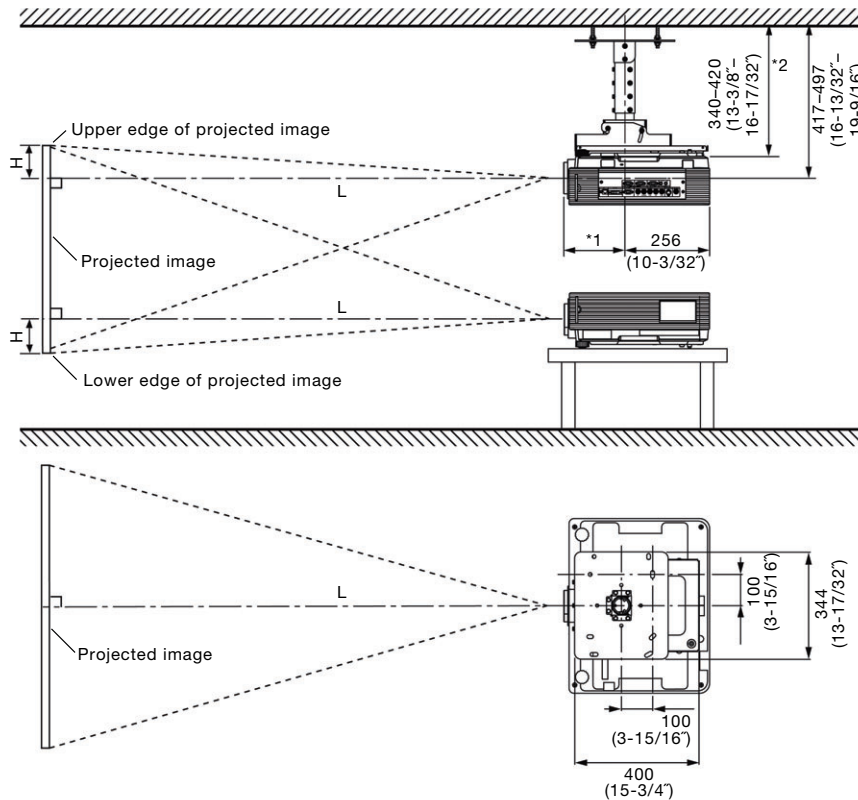
| no. | signal | no. | signal | no. | signal |
|-----|--------|-----|--------|-----|---------|
| 1 | R/Pr | 6 | GND | 11 | GND |
| 2 | G/Y | 7 | GND | 12 | NC |
| 3 | B/Pb | 8 | GND | 13 | HD/SYNC |
| 4 | GND | 9 | NC | 14 | VD |
| 5 | GND | 10 | GND | 15 | NC |

DVI-D output connector pin assignment



| no. | signal | no. | signal | no. | signal |
|-----|--------------------------|-----|--------------------------|-----|--------------------------|
| 1 | T, M, D, S data 2- | 9 | T, M, D, S data 1- | 17 | T, M, D, S data 0- |
| 2 | T, M, D, S data 2+ | 10 | T, M, D, S data 1+ | 18 | T, M, D, S data 0+ |
| 3 | T, M, D, S data 2 shield | 11 | T, M, D, S data 1 shield | 19 | T, M, D, S data 0 shield |
| 4 | NC | 12 | NC | 20 | NC |
| 5 | NC | 13 | NC | 21 | NC |
| 6 | DDC clock | 14 | +5 V | 22 | T, M, D, S clock shield |
| 7 | DDC clock | 15 | GND | 23 | T, M, D, S clock + |
| 8 | NC | 16 | Hot plug detection | 24 | T, M, D, S clock - |

Standard setting-up position (when installed using the ET-PKD56H)



*1 When the lens protrudes to the maximum.

| | |
|--------------------|------------------------|
| 185 mm (7-9/32") | with the supplied lens |
| 209 mm (8-7/32") | with the ET-DLE100 |
| 208 mm (8-3/16") | with the ET-DLE200 |
| 220 mm (8-21/32") | with the ET-DLE310 |
| 209 mm (8-7/32") | with the ET-DLE410 |
| 177 mm (6-31/32") | with the ET-DLE050 |
| 212 mm (8-11/32") | with the ET-DLE150 |
| 213 mm (8-3/8") | with the ET-DLE250 |
| 219 mm (8-5/8") | with the ET-DLE350 |
| 263 mm (10-11/32") | with the ET-DLE450 |
| 195 mm (7-11/16") | with the ET-DLE055 |

*2 Adjustable in 40 mm (1-9/16") steps.

unit : mm (inch)

CAUTION

The ET-DLE050 and ET-DLE055 have a fixed short-focus lens. Therefore, the lens shift function provided in the main unit cannot be used.

If the lens shift function is used, the corners of images may not be displayed or images may remain out of focus in some cases.

Projection distance for 4:3 aspect ratio screen: ET-DLE100/DLE200/DLE310/DLE410/DLE050

Unit: millimeters

| Screen size (inch, diagonal) | Distance to screen (L) | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|------------------------------------|------------------------|--------|------------------------|--------|------------------------|--------|------------------------|---------|----------------------------------|--|-------------------------|
| | Zoom | | | | | | | | Fixed-focus | | |
| | ET-DLE100 Zoom lens | | ET-DLE200 Zoom lens | | ET-DLE310 Zoom lens | | ET-DLE410 Zoom lens | | ET-DLE050 Fixed-focus lens | Zoom lenses | Fixed- focus lens |
| | min. | max. | min. | max. | min. | max. | min. | max. | | | |
| 50 | 1,335 | 1,812 | 2,454 | 4,044 | 3,379 | 4,444 | 4,493 | 8,515 | 794 | 0 – 381 | 381 |
| 60 | 1,611 | 2,184 | 2,958 | 4,868 | 4,076 | 5,354 | 5,419 | 10,245 | 960 | 0 – 457 | 457 |
| 70 | 1,887 | 2,556 | 3,462 | 5,692 | 4,773 | 6,264 | 6,345 | 11,975 | 1,126 | 0 – 533 | 533 |
| 80 | 2,163 | 2,928 | 3,966 | 6,516 | 5,470 | 7,174 | 7,271 | 13,705 | 1,292 | 0 – 610 | 610 |
| 90 | 2,439 | 3,300 | 4,470 | 7,340 | 6,167 | 8,084 | 8,197 | 15,435 | 1,458 | 0 – 686 | 686 |
| 100 | 2,715 | 3,672 | 4,974 | 8,164 | 6,864 | 8,994 | 9,123 | 17,165 | 1,624 | 0 – 762 | 762 |
| 120 | 3,267 | 4,416 | 5,982 | 9,812 | 8,258 | 10,814 | 10,975 | 20,625 | 1,956 | 0 – 914 | 914 |
| 150 | 4,095 | 5,532 | 7,494 | 12,284 | 10,349 | 13,544 | 13,753 | 25,815 | 2,454 | 0 – 1,143 | 1,143 |
| 200 | 5,475 | 7,392 | 10,014 | 16,404 | 13,834 | 18,094 | 18,383 | 34,465 | 3,284 | 0 – 1,524 | 1,524 |
| 250 | 6,855 | 9,252 | 12,534 | 20,524 | 17,319 | 22,644 | 23,013 | 43,115 | – | 0 – 1,905 | – |
| 300 | 8,235 | 11,112 | 15,054 | 24,644 | 20,804 | 27,194 | 27,643 | 51,765 | – | 0 – 2,286 | – |
| 400 | 10,995 | 14,832 | 20,094 | 32,884 | 27,774 | 36,294 | 36,903 | 69,065 | – | 0 – 3,048 | – |
| 500 | 13,755 | 18,552 | 25,134 | 41,124 | 34,744 | 45,394 | 46,163 | 86,365 | – | 0 – 3,810 | – |
| 600 | 16,515 | 22,272 | 30,174 | 49,364 | 41,714 | 54,494 | 55,423 | 103,665 | – | 0 – 4,572 | – |

Unit: feet

| Screen size (inch, diagonal) | Distance to screen (L) | | | | | | | | | Height from the edge of screen to center of lens (H) | |
|------------------------------------|------------------------|------|------------------------|-------|------------------------|-------|------------------------|-------|----------------------------------|--|-------------------------|
| | Zoom | | | | | | | | Fixed-focus | | |
| | ET-DLE100 Zoom lens | | ET-DLE200 Zoom lens | | ET-DLE310 Zoom lens | | ET-DLE410 Zoom lens | | ET-DLE050 Fixed-focus lens | Zoom lenses | Fixed- focus lens |
| | min. | max. | min. | max. | min. | max. | min. | max. | | | |
| 50 | 4.4 | 5.9 | 8.1 | 13.3 | 11.1 | 14.6 | 14.7 | 27.9 | 2.6 | 0.0 – 1.3 | 1.3 |
| 60 | 5.3 | 7.2 | 9.7 | 16.0 | 13.4 | 17.6 | 17.8 | 33.6 | 3.1 | 0.0 – 1.5 | 1.5 |
| 70 | 6.2 | 8.4 | 11.4 | 18.7 | 15.7 | 20.6 | 20.8 | 39.3 | 3.7 | 0.0 – 1.8 | 1.8 |
| 80 | 7.1 | 9.6 | 13.0 | 21.4 | 18.0 | 23.5 | 23.9 | 45.0 | 4.2 | 0.0 – 2.1 | 2.1 |
| 90 | 8.0 | 10.8 | 14.7 | 24.1 | 20.2 | 26.5 | 26.9 | 50.6 | 4.8 | 0.0 – 2.3 | 2.3 |
| 100 | 8.9 | 12.0 | 16.3 | 26.8 | 22.5 | 29.5 | 29.9 | 56.3 | 5.3 | 0.0 – 2.5 | 2.5 |
| 120 | 10.7 | 14.5 | 19.6 | 32.2 | 27.1 | 35.5 | 36.0 | 67.7 | 6.4 | 0.0 – 3.0 | 3.0 |
| 150 | 13.4 | 18.2 | 24.6 | 40.3 | 34.0 | 44.4 | 45.1 | 84.7 | 8.1 | 0.0 – 3.8 | 3.8 |
| 200 | 18.0 | 24.3 | 32.9 | 53.8 | 45.4 | 59.4 | 60.3 | 113.1 | 10.8 | 0.0 – 5.0 | 5.0 |
| 250 | 22.5 | 30.4 | 41.1 | 67.3 | 56.8 | 74.3 | 75.5 | 141.5 | – | 0.0 – 6.3 | – |
| 300 | 27.0 | 36.5 | 49.4 | 80.9 | 68.3 | 89.2 | 90.7 | 169.8 | – | 0.0 – 7.5 | – |
| 400 | 36.1 | 48.7 | 65.9 | 107.9 | 91.1 | 119.1 | 121.1 | 226.6 | – | 0.0 – 10.0 | – |
| 500 | 45.1 | 60.9 | 82.5 | 134.9 | 114.0 | 148.9 | 151.5 | 283.3 | – | 0.0 – 12.5 | – |
| 600 | 54.2 | 73.1 | 99.0 | 162.0 | 136.9 | 178.8 | 181.8 | 340.1 | – | 0.0 – 15.0 | – |

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
- The brightness varies depending on the zoom setting.

Projection distance for 4:3 aspect ratio screen:**Supplied lens and ET-DLE150/DLE250/DLE350/DLE450/DLE055**

| | | | | | | | | | | | | | Unit: millimeters | | |
|------------------------------------|------------------------|--------|---------------|--------|------------------------|--------|------------------------|--------|------------------------|---------|----------------------------------|--|-------------------|--------------------------|--|
| Screen size (inch, diagonal) | Distance to screen (L) | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | | |
| | Zoom | | | | | | | | | | Fixed-focus | | | | |
| | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | | Fixed- focus lens* | |
| | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | | | |
| 50 | 1,344 | 1,967 | 1,785 | 2,376 | 2,361 | 3,777 | 3,713 | 5,681 | 5,525 | 8,912 | 808 | 0 – | 381 | 381 | |
| 60 | 1,623 | 2,370 | 2,155 | 2,864 | 2,850 | 4,548 | 4,483 | 6,844 | 6,690 | 10,754 | 979 | 0 – | 457 | 457 | |
| 70 | 1,903 | 2,773 | 2,525 | 3,352 | 3,338 | 5,319 | 5,253 | 8,007 | 7,855 | 12,596 | 1,150 | 0 – | 533 | 533 | |
| 80 | 2,183 | 3,177 | 2,895 | 3,840 | 3,826 | 6,090 | 6,023 | 9,170 | 9,020 | 14,438 | 1,322 | 0 – | 610 | 610 | |
| 90 | 2,462 | 3,580 | 3,265 | 4,328 | 4,315 | 6,861 | 6,792 | 10,333 | 10,186 | 16,280 | 1,493 | 0 – | 686 | 686 | |
| 100 | 2,742 | 3,983 | 3,635 | 4,816 | 4,803 | 7,633 | 7,562 | 11,496 | 11,351 | 18,123 | 1,664 | 0 – | 762 | 762 | |
| 120 | 3,301 | 4,790 | 4,375 | 5,792 | 5,779 | 9,175 | 9,101 | 13,823 | 13,681 | 21,807 | 2,006 | 0 – | 914 | 914 | |
| 150 | 4,140 | 6,000 | 5,485 | 7,256 | 7,244 | 11,489 | 11,411 | 17,312 | 17,177 | 27,333 | 2,519 | 0 – | 1143 | 1143 | |
| 200 | 5,537 | 8,016 | 7,335 | 9,696 | 9,686 | 15,344 | 15,259 | 23,127 | 23,004 | 36,544 | 3,375 | 0 – | 1,524 | 1,524 | |
| 250 | 6,935 | 10,033 | 9,185 | 12,136 | 12,127 | 19,200 | 19,108 | 28,943 | 28,830 | 45,755 | – | 0 – | 1,905 | – | |
| 300 | 8,333 | 12,049 | 11,035 | 14,576 | 14,568 | 23,056 | 22,956 | 34,758 | 34,656 | 54,966 | – | 0 – | 2,286 | – | |
| 400 | 11,129 | 16,082 | 14,735 | 19,456 | 19,451 | 30,768 | 30,653 | 46,389 | 46,309 | 73,387 | – | 0 – | 3,048 | – | |
| 500 | 13,924 | 20,115 | 18,435 | 24,336 | 24,334 | 38,480 | 38,350 | 58,020 | 57,961 | 91,809 | – | 0 – | 3,810 | – | |
| 600 | 16,720 | 24,148 | 22,135 | 29,216 | 29,217 | 46,192 | 46,047 | 69,651 | 69,614 | 110,231 | – | 0 – | 4,572 | – | |

| | | | | | | | | | | | | | Unit: feet | |
|------------------------------------|------------------------|------|---------------|------|------------------------|-------|------------------------|-------|------------------------|-------|----------------------------------|--|--------------------------|--|
| Screen size (inch, diagonal) | Distance to screen (L) | | | | | | | | | | | Height from the edge of screen to center of lens (H) | | |
| | Zoom | | | | | | | | | | Fixed-focus | | | |
| | ET-DLE150 Zoom lens | | Supplied lens | | ET-DLE250 Zoom lens | | ET-DLE350 Zoom lens | | ET-DLE450 Zoom lens | | ET-DLE055 Fixed-focus lens | Zoom lenses | Fixed- focus lens* | |
| | min. | max. | min. | max. | min. | max. | min. | max. | min. | max. | | | | |
| 50 | 4.5 | 6.5 | 5.9 | 7.8 | 7.8 | 12.4 | 12.2 | 18.7 | 18.2 | 29.3 | 2.7 | 0.0 – 1.3 | 1.3 | |
| 60 | 5.4 | 7.8 | 7.1 | 9.4 | 9.4 | 15.0 | 14.8 | 22.5 | 22.0 | 35.3 | 3.3 | 0.0 – 1.5 | 1.5 | |
| 70 | 6.3 | 9.1 | 8.3 | 11.0 | 11.0 | 17.5 | 17.3 | 26.3 | 25.8 | 41.4 | 3.8 | 0.0 – 1.8 | 1.8 | |
| 80 | 7.2 | 10.5 | 9.5 | 12.6 | 12.6 | 20.0 | 19.8 | 30.1 | 29.6 | 47.4 | 4.4 | 0.0 – 2.1 | 2.1 | |
| 90 | 8.1 | 11.8 | 10.8 | 14.2 | 14.2 | 22.6 | 22.3 | 34.0 | 33.5 | 53.5 | 4.9 | 0.0 – 2.3 | 2.3 | |
| 100 | 9.0 | 13.1 | 12.0 | 15.9 | 15.8 | 25.1 | 24.9 | 37.8 | 37.3 | 59.5 | 5.5 | 0.0 – 2.5 | 2.5 | |
| 120 | 10.9 | 15.8 | 14.4 | 19.1 | 19.0 | 30.2 | 29.9 | 45.4 | 44.9 | 71.6 | 6.6 | 0.0 – 3.0 | 3.0 | |
| 150 | 13.6 | 19.7 | 18.0 | 23.9 | 23.8 | 37.7 | 37.5 | 56.8 | 56.4 | 89.7 | 8.3 | 0.0 – 3.8 | 3.8 | |
| 200 | 18.2 | 26.3 | 24.1 | 31.9 | 31.8 | 50.4 | 50.1 | 75.9 | 75.5 | 119.9 | 11.1 | 0.0 – 5.0 | 5.0 | |
| 250 | 22.8 | 33.0 | 30.2 | 39.9 | 39.8 | 63.0 | 62.7 | 95.0 | 94.6 | 150.2 | – | 0.0 – 6.3 | – | |
| 300 | 27.4 | 39.6 | 36.3 | 47.9 | 47.8 | 75.7 | 75.4 | 114.1 | 113.8 | 180.4 | – | 0.0 – 7.5 | – | |
| 400 | 36.6 | 52.8 | 48.4 | 63.9 | 63.9 | 101.0 | 100.6 | 152.2 | 152.0 | 240.8 | – | 0.0 – 10.0 | – | |
| 500 | 45.7 | 66.0 | 60.5 | 79.9 | 79.9 | 126.3 | 125.9 | 190.4 | 190.2 | 301.3 | – | 0.0 – 12.5 | – | |
| 600 | 54.9 | 79.3 | 72.7 | 95.9 | 95.9 | 151.6 | 151.1 | 228.6 | 228.4 | 361.7 | – | 0.0 – 15.0 | – | |

- The value for L (distance to screen) varies slightly depending on the zoom lens characteristics.
- At the shortest projection distance, the zoom lens characteristics may cause slight image distortion.
- When vertical keystone correction is used, the image is corrected in the direction that reduces its projected size.
- The brightness varies depending on the zoom setting.

Calculation of the projection distance

For a screen size different from the above, use the equation below to calculate the projection distance.

Aspect ratio 4:3

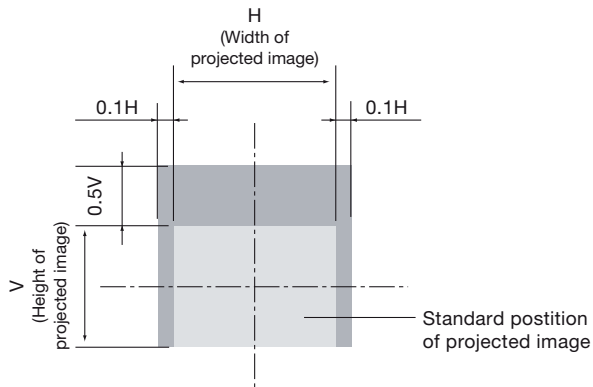
| | | |
|---------------|---------------|--|
| ET-DLE100 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 27.6 - 45$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 37.2 - 48$ |
| ET-DLE150 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 28.0 - 54.0$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 37.2 - 49.8$ |
| Supplied lens | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 37.0 - 65$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 48.8 - 64$ |
| ET-DLE200 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 50.4 - 66$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 82.4 - 76$ |
| ET-DLE250 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 48.8 - 80.0$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 77.1 - 79.2$ |
| ET-DLE310 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 69.7 - 106$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 91.0 - 106$ |
| ET-DLE350 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 77.0 - 135.1$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 116.3 - 134.6$ |
| ET-DLE410 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 92.6 - 137$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 173.0 - 135$ |
| ET-DLE450 | minimum | $L (m) = (\text{diagonal screen size in inches}) \times 116.5 - 301.7$ |
| | maximum | $L (m) = (\text{diagonal screen size in inches}) \times 184.2 - 299.1$ |
| ET-DLE050 | (fixed focus) | $L (m) = (\text{diagonal screen size in inches}) \times 16.6 - 36$ |
| ET-DLE055 | (fixed focus) | $L (m) = (\text{diagonal screen size in inches}) \times 17.1 - 47.6$ |

- Distances calculated with the above equations will include a slight error.
- When an SXGA signal is input, the left and right edges of the image are blanked, and the image is projected at a screen aspect ratio of 5:4.
- The brightness varies depending on the zoom setting.

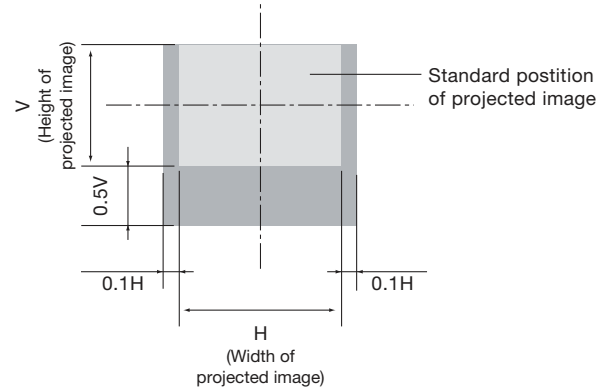
Shift range

Optical axis shift function allows to shift the position of a projected image as shown.

• Floor mount



• Ceiling mount

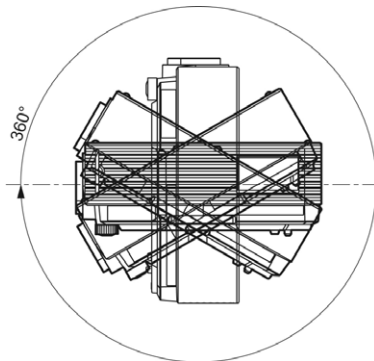


Installable angle

Install the projector at an angle within the range shown below.

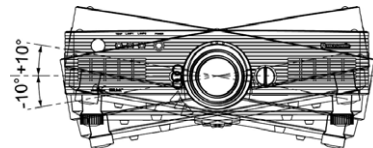
• Vertical direction

The projector may be installed at a vertical angle of 360° .



• Horizontal direction

The projector may be installed at a horizontal angle of $\pm 10^\circ$.



List of compatible signals

This projector supports RGB signals with horizontal frequencies of 15 to 91 kHz, vertical frequencies of 50 to 85 Hz and up to 150 MHz dot clock.

NOTE: The native resolution of this projector is 1,024 x 768 pixels. If the display resolution of the input signal is different from the native resolution, image compression or expansion will be used to convert the input signal to a level within the native resolution.

| Display mode | Display resolution (dots) ¹ | Scanning frequency H (kHz) | V (kHz) | Dot clock frequency (MHz) | Picture quality ² | Format |
|---------------------------|--|-------------------------------|---------|---------------------------|------------------------------|----------------|
| NTSC/NTSC4.43/PAL-M/PAL60 | 720 x 480i | 15.7 | 59.9 | - | A | VIDEO/S-VIDEO |
| PAL/PAL-N/SECAM | 720 x 576i | 15.6 | 50.0 | - | A | |
| 480i (525i) | 720 x 480i | 15.7 | 59.9 | 13.5 | A | YPbPr /RGB |
| 576i (625i) | 720 x 576i | 15.6 | 50.0 | 13.5 | A | |
| 480p (525p) | 720 x 483 | 31.5 | 59.9 | 27.0 | A | YPbPr /RGB/DVI |
| 576p (625p) | 720 x 576 | 31.3 | 50.0 | 27.0 | A | |
| 720/60p | 1,280 x 720 | 45.0 | 60.0 | 74.3 | A | |
| 720/50p | 1,280 x 720 | 37.5 | 50.0 | 74.3 | A | |
| 1080/60i | 1,920 x 1,080i | 33.8 | 60.0 | 74.3 | A | |
| 1080/50i | 1,920 x 1,080i | 28.1 | 50.0 | 74.3 | A | |
| 1080/60p | 1,920 x 1,080 | 67.5 | 60.0 | 148.5 | A | |
| 1080/50p | 1,920 x 1,080 | 56.3 | 50.0 | 148.5 | A | |
| VGA400 | 640 x 400 | 31.5 | 70.1 | 25.2 | A | RGB |
| | | 37.9 | 85.1 | 31.5 | A | |
| VGA480 | 640 x 480 | 31.5 | 59.9 | 25.2 | A | RGB/DVI |
| | | 35.0 | 66.7 | 30.2 | A | RGB |
| | | 37.9 | 72.8 | 31.5 | A | |
| | | 37.5 | 75.0 | 31.5 | A | |
| | | 43.3 | 85.0 | 36.0 | A | |
| SVGA | 800 x 600 | 35.2 | 56.3 | 36.0 | A | |
| | | 37.9 | 60.3 | 40.0 | A | RGB/DVI |
| | | 48.1 | 72.2 | 50.0 | A | RGB |
| | | 46.9 | 75.0 | 49.5 | A | |
| | | 53.7 | 85.1 | 56.3 | A | |
| MAC16 | 832 x 624 | 49.7 | 74.6 | 57.3 | A | |
| XGA | 1,024 x 768 | 39.6 | 50.0 | 51.9 | AA | RGB/DVI |
| | | 48.4 | 60.0 | 65.0 | AA | |
| | | 56.5 | 70.1 | 75.0 | AA | |
| | | 60.0 | 75.0 | 78.8 | AA | |
| | | 68.7 | 85.0 | 94.5 | AA | |
| | | 35.5 | 87.0 | 44.9 | AA | RGB |
| WXGA | 1,280 x 768 | 39.6 | 50.0 | 65.2 | A | RGB/DVI |
| | | 47.7 | 60.0 | 80.1 | A | |
| | 1,280 x 800 | 41.3 | 50.0 | 68.0 | A | RGB |
| | | 49.7 | 59.8 | 83.5 | A | |
| MXGA | 1,152 x 864 | 64.0 | 71.2 | 94.2 | A | |
| | | 67.5 | 74.9 | 108.0 | A | |
| | | 76.7 | 85.0 | 121.5 | A | |
| MAC21 | 1,152 x 870 | 68.7 | 75.1 | 100.0 | A | |
| MSXGA | 1,280 x 960 | 60.0 | 60.0 | 108.0 | A | |
| SXGA | 1,280 x 1,024 | 64.0 | 60.0 | 108.0 | A | RGB/DVI |
| | | 80.0 | 75.0 | 135.0 | A | RGB |
| | | 91.1 | 85.0 | 157.5 | A | |
| SXGA+ | 1,400 x 1,050 | 64.0 | 60.0 | 108.0 | A | RGB/DVI |
| UXGA | 1,600 x 1,200 | 75.0 | 60.0 | 162.0 | A | RGB |

1. The "i" appearing after the resolution indicates an interlaced signal.

2. The following symbols are used to indicate picture quality.

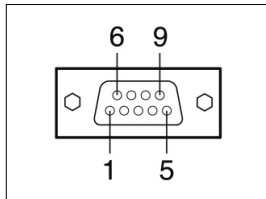
AA Maximum picture quality can be obtained.

A Signals are converted by the image processing circuit before picture is projected.

Serial connector

The serial connector complies with RS-232C. To control the projector from a personal computer, commands must be input through communication software, based on the format and satisfying the communication conditions shown below.

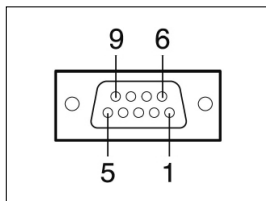
Pin assignments and signal names



D-sub 9-pin (female)
Serial input

| No. | Signal name | Description | No. | Signal name | Description |
|-----|-------------|----------------------|-----|-------------|----------------------|
| 1 | – | NC | 6 | – | NC |
| 2 | TXD | Send data | 7 | CTS | Connected internally |
| 3 | RXD | Receive data | 8 | RTS | Connected internally |
| 4 | – | Connected internally | 9 | – | NC |
| 5 | GND | Ground | | | |

Pin assignments and signal names



D-sub 9-pin (male)
Serial output

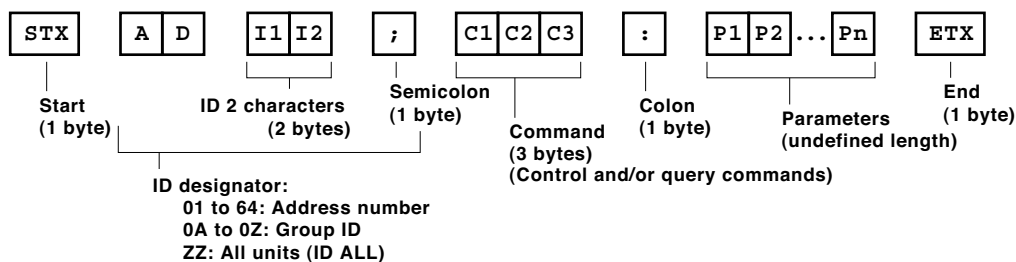
| No. | Signal name | Description | No. | Signal name | Description |
|-----|-------------|----------------------|-----|-------------|----------------------|
| 1 | – | NC | 6 | – | NC |
| 2 | RXD | Receive data | 7 | RTS | Connected internally |
| 3 | TXD | Send data | 8 | CTS | Connected internally |
| 4 | – | Connected internally | 9 | – | NC |
| 5 | GND | Ground | | | |

Communication conditions (factory setting)

| | |
|------------------------|----------------------------|
| Signal level | RS-232C-compliant |
| Synchronization method | Start-stop synchronization |
| Baud rate | 9,600 bps |
| Parity | None |
| Character length | 8 bits |
| Stop bit | 1 bit |
| X parameter | None |
| S parameter | None |

Basic format

Transmission from the computer begins with STX, then the ID, command, parameter, and ETX are sent in this order. Add parameters according to the details of control.



CAUTION

- It may not be possible to send or receive commands for about 10 to 60 seconds when the lamp is first turned on. If this occurs, wait for 60 seconds, then try sending or receiving again.
- When sending multiple commands, be sure to wait for at least 0.5 second after receiving a response from the projector before sending the next command.
- Additional time is sometimes required for response due to processing inside the projector. Set the time-out period for command response to 10 seconds or more.

Cable specifications

| Projector | | PC (DTE) | |
|-----------|----|----------|---|
| 1 | NC | NC | 1 |
| 2 | | | 2 |
| 3 | | | 3 |
| 4 | NC | NC | 4 |
| 5 | | | 5 |
| 6 | NC | NC | 6 |
| 7 | | | 7 |
| 8 | | | 8 |
| 9 | NC | NC | 9 |

Control commands

| Item | Command : Parameter | Function | Callback |
|--------------|-----------------------|-----------------------|----------|
| POWER | PON* ¹ | Power on | PON |
| | POF* ¹ | Standby power off | POF |
| FREEZE | OFZ:0 | Freeze off | OFZ:0 |
| | OFZ:1 | Freeze on | OFZ:1 |
| AUTO SETUP | OAS | Auto setup | OAS |
| SHUTTER | OSH:0* ^{1/2} | Shutter off | OSH:0 |
| | OSH:1* ^{1/2} | Shutter on | OSH:1 |
| INPUT SELECT | IIS:RG1 | RGB 1 | IIS:RG1 |
| | IIS:RG2 | RGB 2 | IIS:RG2 |
| | IIS:VID | Video | IIS:VID |
| | IIS:SVD | S-Video | IIS:SVD |
| | IIS:DVI | DVI | IIS:DVI |
| TEST | OTS:00 | Exit test pattern | OTS:00 |
| | OTS:01 | White (full on) | OTS:01 |
| | OTS:02 | Black (full off) | OTS:02 |
| | OTS:03 | Flag | OTS:03 |
| | OTS:05 | Window | OTS:05 |
| | OTS:07 | Focus | OTS:07 |
| | OTS08 | Color bar | OTS08 |
| ON SCREEN | OOS:0 | On-screen display off | OOS:0 |
| | OOS:1 | On-screen display on | OOS:1 |

*1 Do not send PON, POF, OSH, or OLP commands continuously in a short period of time. Doing so may burst the lamp or shorten the lamp replacement cycle.

*2 When a command that cannot be executed during standby mode is sent, the projector will send an ER401 command in reply.

Adjustment mode

| Item | Command: Parameter | Description | Callback: Parameter | Parameter value | |
|--------------|-----------------------|--------------|-----------------------|-----------------|-----------|
| | | | | Min. | Max. |
| PICTURE MODE | VPM:NAT | Natural | VPM:NAT | - | - |
| | VPM:STD | Standard | VPM:STD | - | - |
| | VPM:DYN | Dynamic | VPM:DYN | - | - |
| | VPM:CIN | Cinema | VPM:CIN | - | - |
| | VPM:GRA | Graphic | VPM:GRA | - | - |
| SYSTEM | VXX:DLVI0=+00000 | Off | VXX:DLVI0=+00000 | - | - |
| DAYLIGHT | VXX:DLVI0=+00001 | 1 | VXX:DLVI0=+00001 | - | - |
| VIEW | VXX:DLVI0=+00002 | 2 | VXX:DLVI0=+00002 | - | - |
| | VXX:DLVI0=+00003 | 3 | VXX:DLVI0=+00003 | - | - |
| COLOR | VCO:p1p2p3 | Color | VCO:p1p2p3 | 1 | 63 |
| TINT | VTN:p1p2p3 | Tint | VTN:p1p2p3 | 1 | 63 |
| COLOR TEMP. | OTE:1 | Middle | OTE:1 | - | - |
| | OTE:2 | High | OTE:2 | - | - |
| | OTE:4 | User | OTE:4 | - | - |
| | OTE:10 | Default | OTE:10 | - | - |
| CONTRAST | VCN:p1p2p3 | Contrast | VCN:p1p2p3 | 1 | 63 |
| BRIGHTNESS | VBR:p1p2p3 | Brightness | VBR:p1p2p3 | 1 | 63 |
| SHARPNESS | VSR:p1p2p3 | Sharpness | VSR:p1p2p3 | 0 | 15 |
| SET DATE | TSD:y1y2y3y4m1m2d1d2w | Date setting | TSD:y1y2y3y4m1m2d1d2w | 200701011 | 203512317 |
| SET TIME | TST:h1h2m1m2s1s2 | Time setting | TST:h1h2m1m2s1s2 | 000000 | 235959 |

Status asking commands

| Item | Command:Parameter | Function | Callback | Description |
|----------------------------|-------------------|-------------------------------------|----------------------------------|---------------------------------------|
| POWER CONDITION | QPW | Main power status | 000 | Standby (Off) |
| | | | 001 | On |
| FREEZE | QFZ | Freeze function status | 0 | Off |
| | | | 1 | On |
| SHUTTER | QSH | Shutter function status | 0 | Off |
| | | | 1 | On |
| INPUT SIGNAL | QIN | Input signal status | RG1 | RGB 1 |
| | | | RG2 | RGB 2 |
| | | | VID | Video |
| | | | SVD | S-Video |
| | | | DVI | DVI |
| TEST | QTS | Test pattern status | 0 | Exit test pattern |
| | | | 1 | White (full on) |
| | | | 2 | Black (full off) |
| | | | 3 | Flag |
| | | | 5 | Window |
| | | | 7 | Focus |
| | | | 8 | Color bar |
| ON SCREEN | QOS | On-screen display status | 0 | Off |
| | | | 1 | On |
| PICTURE MODE | QPM | Picture mode status | NAT | Natural |
| | | | STD | Standard |
| | | | DYN | dynamic |
| | | | CIN | Cinema |
| | | | GRA | Graphic |
| SYSTEM DAYLIGHT VIEW | QVX:DLVIO | System daylight view status | DLVIO=+00000 | Off |
| | | | DLVIO=+00001 | 1 |
| | | | DLVIO=+00002 | 2 |
| | | | DLVIO=+00003 | 3 |
| COLOR | QVC | Color adjustment value | p1p2p3 | |
| TINT | QVT | Tint adjustent value | p1p2p3 | |
| COLOR TEMP. | QTE | Color temperature adjustment status | 1 | Middle |
| | | | 2 | High |
| | | | 4 | User |
| | | | 10 | Default |
| CONTRAST | QVR | Contrast adjustment value | p1p2p3 | |
| BRIGHTNESS | QVB | Brightness adjustment value | p1p2p3 | |
| SHARPNESS | QVS | Sharpness adjustment value | p1p2p3 | |
| SET RUNTIME | QST | Picture mode status | p1p2p3p4p5 | 00000h–99999h |
| LAMP ON TIME | Q\$L:1 | Lamp 1 run time | p1p2p3p4 | 0000h–9999h |
| (LAMP TIMER) | Q\$L:2 | Lamp 2 run time | p1p2p3p4 | 0000h–9999h |
| LAMP SELECT | QSL | Lamp operation mode status | 0 | Dual |
| | | | 1 | Single |
| | | | 2 | Lamp 1 |
| | | | 3 | Lamp 2 |
| | | | | |
| LAMP POWER | QLP | Lamp power mode status | 0 | High |
| | | | 1 | Low |
| VPS SYSTEM | QVY | VPS system status | 0 | Slave |
| | | | 1 | Master |
| TMP CHECK | QTM:0 | Temperature status | p1p2p3p4/p5p6p7p8 ^(*) | p0 = Intake air |
| | QTM:1 | | | p1 = Exhaust air |
| | QTM:2 | | | p2 = DLP™ chip |
| GET DATE | QGD | Date setting status | y1y2y3y4m1m2d1d2w | yyyymmdd (day of week) ^(*) |
| GET TIME | QGT | Time setting status | h1h2m1m2s1s2 | hhmmss ^(*) |

*1 p1p2p3p4: Celsius (°C), p5p6p7p8: Fahrenheit (°F)

*2 Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7

*3 Set the date and time to UTC (universal time coordinated).

Parameter format

| Parameter format | Size (Byte) | Definition |
|-------------------|---|---|
| <pl> | 3 (1 or 2 bytes also possible when under control) | Dicimal without signs: 0-999 (000, 001, 002...999) Dicimal with signs: -99 to +99 (-99...-01, +00, +01, +02...+99) Callback from the projector is 3 Byte. |
| <off on> | 1 | 0 = off, 1 = on |
| <input signal> | 3 | RG1 = computer 1, RG2 = computer 2, VID = video, SVD = S-Video, DVI = DVI |
| <installation> | 1 | 0 = front, 1 = rear, 2 = ceiling and front, 3 = ceiling and rear |
| <language> | 3 | ENG = English, DEU = German, FRA = French, ESP = Spanish, ITL = Italian, JPN = Japanese, CHI = Chinese, RUS = Russian, KOR = Korean |
| <power condition> | 3 | 000 = standby power off, 001 = standby power on |
| <lamp on time> | 4 | Decimal without signs: 0000-9999 hours |
| <lamp select> | 1 | 0 = dual, 1 = single, 2 = lamp 1, 3 = lamp 2 |
| <lamp power> | 1 | 0 = high, 1 = low |
| <acctch> | 4 | Decimal without signs: 0000-9999 hours |
| <color temp> | 2 | 1 = mid, 2 = high, 4 = user, 10 = default |
| <date> | 9 | y1y2y3y4m1m2d1d2w = year (y) month (m) day (d) day of week (w) Day of week: Monday = 1, Tuesday = 2, ... Sunday = 7 |
| <time> | 6 | h1h2m1m2s1s2 = hour (h) minute (m) second (s) |

NOTE: If a wrong command is received, the projector will send an ER401 command to the computer.

Command example

To set the on-screen display off, send the command as shown below.

| | | | | | | |
|--------------|-------------------|----------|----------------|----------|------------------|------------|
| STX | ADZZ | ; | OOS | : | 30 | ETX |
| | | | | | | |
| Start | ID Address | | Command | | Parameter | End |

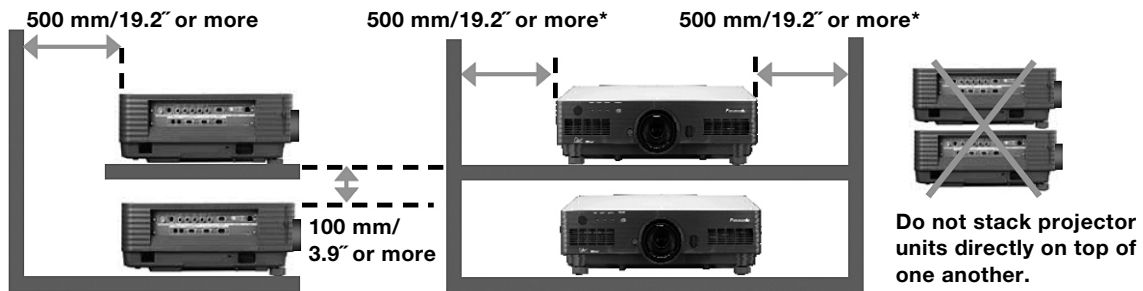
NOTE: When sending commands without parameters, a colon (:) is not necessary.

Notes on Projector Placement and Operation

The projector uses a high-wattage lamp that becomes very hot during operation. Please observe the following precautions.

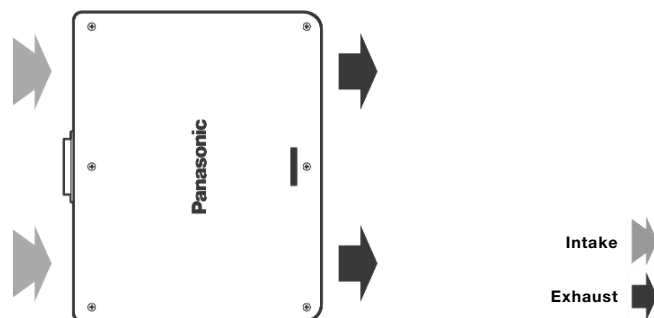
1. Never place objects on top of the projector while it is operating.
2. Make sure there is an unobstructed space of 500 mm or more around the projector's exhaust openings.
3. Do not stack projector units directly on top of one another. If two units must be stacked for back-up use in ordinary projection, use a method as shown below and provide ample space between the units to ensure that exhaust heat does not accumulate near the intake opening or around the units. Dual stacked projection of the PT-D5700/D5700L is not recommended.
4. If the projector is placed in a box or enclosure, ensure the temperature of the air surrounding the projector is between 0°C/32°F and 40°C/104°F*. Also make sure the projector's intake and exhaust openings are not blocked. Take particular care to ensure that hot air from the exhaust openings is not sucked into the intake openings.

* Even when the ambient temperature near the intake opening is 40°C/104°F or lower, an accumulation of hot air inside the cabinet may cause the protective circuit to activate and shut down the projector. Please give ample consideration to the design with regard to ambient temperature conditions.



* Minimum distance when two units are used together.
Keep 300 mm/11.8" or more when a single unit is used.

Direction of Air Intake and Exhaust



Operating the Projector Continuously

1. If the projector is to be operated continuously 24 hours a day, use the dual-lamp optical system's alternating lamp operation (lamp changer) function. The projector cannot be operated continuously 24 hours a day in dual-lamp mode.
Allow a minimum of two hours per day of non-operation time.
2. The lamp replacement cycle duration becomes shorter if the projector is operated repeatedly for short periods.

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